

**EAST CENTRAL UNIVERSITY  
BIOLOGY - B.S.  
MOLECULAR BIOLOGY CONCENTRATION  
0049/UG22**

Advisor \_\_\_\_\_

Student's Name \_\_\_\_\_ ID No. \_\_\_\_\_

**DEGREE CHECK INCLUDES CURRENT ENROLLMENT**

Checked by _____ Date _____	Work in progress _____	
Required: 124 total hours _____ completed	2.0 minimum required in the following areas:	Work lacking:
30 hrs @ ECU _____ completed	ECU Avg _____ Rtn Avg _____	Major _____ (inc A/C and Related Work)
(15 of last 30 must be at ECU) _____	Major Overall Avg _____	Minor _____ (incl Rel Wk)
60 hrs @ Sr College _____ completed	Major ECU Avg _____	Prof Educ _____
40 hrs upper level _____ completed	Minor Overall Avg _____	General Educ _____
HS Curricular Req ___met ___not met		Comp Prof ___met ___not met

	<u>REQUIREMENTS</u>	<u>HOURS</u>		<u>REQUIREMENTS</u>	<u>HOURS</u>
<b>I. General Education (44 HOURS)</b> <i>11 hours (BIOL 1114, PHYS 1114 and MATH 1513) counted in the Major</i>					
<b>Other hours needed</b>		<b>33</b>	<b>B. Required Related Work</b>		26-28
<b>II. Major in Biology</b>		<b>49-50</b>	___ CHEM 1114 General Chemistry I		
<b>B. Required General Education</b>		4	___ CHEM 1214 General Chemistry II		
___ BIOL 1114 General Biology			___ CHEM 3114 Organic Chemistry I		
<b>C. Required in the Biology Core</b>		16	___ CHEM 4213 Biochemistry		
___ BIOL 1214 General Botany			___ CHEM 4221 Biochemistry Lab		
___ BIOL 1314 General Zoology			___ PHYS 1214 General Physics II		
___ BIOL 3434 Genetics			One of the following:		
___ BIOL 3514 General Physiology <b>OR</b>			___ MATH 2613 Calculus for Bus, Life & Soc Sciences		
___ BIOL 3634 Human Physiology			___ MATH 2825 Calculus & Analytic Geometry I		
<b>D. Required for Concentration in Molecular Biology</b>		20-21	One of the following:		
___ BIOL 2344 General Microbiology			___ EHS 3703 Biostatistics & Environmental Calculations		
___ BIOL 3013 Research Methods & Bioethics			___ MATH 1223 Intro to Probability and Statistics		
___ BIOL 4313 Cell and Molecular Biology			___ PSYCH 3833 Behavioral Science Statistics		
___ BIOL 4545 Advanced Molecular Biology			___ SOC 3833 Statistics for Social Sciences		
___ BIOL 4881 Biology Senior Seminar			<b>E. Recommended Electives</b>		
One of the following:			___ BIOL 3683 Immunology		
___ BIOL 2184 Human Anatomy			___ CHEM 3314 Quantitative Analysis		
___ BIOL 3245 Comparative Vertebrate Anatomy			___ CHEM 4114 Organic Chemistry II		
<b>F. Required Electives</b>		9	<b>IV. Minor (Not Required)</b>		
Three of the following:			<b>V. Electives</b>		<b>6-9</b>
___ BIOL 2243 Intro to Biotechnology			<b>VI. Total Hours Required</b>		<b>124</b>
___ BIOL 2773 Forensic Biology			<b>VII. Special Requirements</b>		
___ BIOL 3553 Genomics and Bioinformatics			With departmental approval, students may omit MATH 1513 and begin with MATH 2825.		
___ BIOL 3623 Biochemistry of Human Disease			The OSRHE computer proficiency graduation requirement will be met through completion of one of the courses in the institution's general education computer literacy option (including equated or substituted courses) or testing out of the challenge exam for one of these courses (all courses may not have challenge exams), <u>OR</u> successful completion of an associate of arts or associate of science degree at an Oklahoma two-year college in which the computer skills requirement was met. Satisfaction of this requirement may not reduce or remove any program requirements.		
___ BIOL 4763 Biochemical Genetics					
<b>III. Related Work</b>		<b>33-35</b>			
<b>B. Required General Education</b>		7			
___ MATH 1513 College Algebra					
___ PHYS 1114 General Physics I					
_____					
_____					
_____					